Bruhat Bengaluru
Mahanagara Palike

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st &FINAL E-BILL

NAME OF WORK:- Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Estimated Cost RS :- 50.00 Lakh's

Agency:-Sri.Lakshman P S/o Hanumanthappa.No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

JOB CODE NO:-003-21-000028

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Measurements Taken On:- 30/07/2022

S. No	Description of work	Unit	No.	Measurements L	B	D	Qty	Rate	Amount
1	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications and the directions of the engineer-in-charge.								
		Cum							
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						196.56		
				Page no:- (2)			196.56	484.92	95316.00
2	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specifications and the directions of the engineer-in-charge.								
		Cum							
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						14.62		
				Page no:- (3)			14.62	2623.32	38353.00
3	Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and the directions of the engineer-in-charge.								
		Cum							
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						31.01		
				Page no:- (4)			31.01	5510.16	170890.00
4	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and the directions of the engineer-in-charge.								
	Basement:- Long Walls	cum	3	20.05	0.45	0.10	2.71		
	Short Walls		4	5.75	0.45	0.10	1.04		
			4	1.55	0.45	0.10	0.28		
	Flooring:-Room1		1	7.00	6.00	0.12	5.04		
	Room2		1	7.00	6.00	0.12	5.04		
	Room3		1	5.00	6.00	0.12	3.60		
	Corridor		1	19.70	1.85	0.12	4.37		
	Flagging Wall:-Back		1	21.80	1.00	0.12	2.62		
	Right Side		1	8.40	1.00	0.12	1.01		
	Front		1	15.90	1.00	0.12	1.91		
		0.5	1	4.10	1.40	0.12	0.49		
	Left Side		1	8.50	0.70	0.12	1.02		
	Compound Wall		1	14.00	0.40	0.10	0.56		
			1	14.60	0.40	0.10	0.58		
			1	9.00	0.40	0.10	0.36		
			1	13.80	0.40	0.10	0.55		
							31.17	5754.24	179384.00

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5	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specifications and the directions of the engineer-in-charge.								
		Cum							
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						46.15		
	Page NO:- (5)	Limited To Schedule 'B' Quantity					46.15	4963.68	229074.00
6	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications and the directions of the engineer-in-charge.								
	Basement:- Long Walls	Cum	3	20.05	0.45	0.20	5.41		
	Short Walls		4	5.75	0.45	0.20	2.07		
			4	1.55	0.45	0.20	0.56		
	Compound Wall		1	14.60	0.45	0.20	1.31		
			1	9.00	0.45	0.20	0.81		
			2	13.80	0.45	0.20	1.24		
							11.41		
	Columns:- C1		1	0.45	0.30	0.20	0.03		
			3	0.45	0.30	0.20	0.08		
	C2		2	0.45	0.30	0.20	0.05		
	C3		3	0.45	0.30	0.20	0.08		
	C4		3	0.45	0.30	0.20	0.08		
	C5		6	0.23	0.23	0.20	0.06		
							0.39		
							11.02		
		Limited To Schedule 'B' Quantity					10.56	6485.40	68486.00
7	Providing flush pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications and the directions of the engineer-in-charge.								
	Basement:- Long Walls	Sqm	2	20.05		0.20	8.02		
	Short Walls		2	8.40		0.20	3.36		
	Compound Wall		1	14.60		0.20	2.92		
			2	9.00		0.20	3.60		
			2	13.80		0.20	5.52		
							23.42	153.36	3592.00
8	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications and the directions of the engineer-in-charge.								
		Cum							
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						51.16		
	Page NO:- (6)						51.16	217.08	11106.00
9	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge and the directions of the engineer-in-charge.								
		Cum							
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						98.12		
	page NO:- (7)						98.12	67.09	6583.00
10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons and the directions of the engineer-in-charge.								
		Sqm							
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						75.24		
	page NO:- (12)						75.24	278.64	20965.00

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11	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons and the directions of the engineer-in-charge.									
		Sqm								
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						87.21			
				page no: 13			87.21	388.64	33893.29	
12	Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton and the directions of the engineer-in-charge.									
		Sqm								
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						65.70			
				page no: 14			65.70	492.48	32356.00	
13	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level - 0 to 5 mtrs.Complete as per specifications and the directions of the engineer-in-charge.									
		Sqm								
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						156.42			
				page no: 17			156.42	432.00	67573.00	
14	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications and the directions of the engineer-in-charge.									
		Sqm								
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						8.31			
				page no: 18			8.31	815.40	6776.00	
15	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons and the directions of the engineer-in-charge.									
		Sqm								
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						105.00			
				page no: 15			105.00	315.36	33111.54	
16	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton and the directions of the engineer-in-charge.									
		Sqm		Item Not Operated			0.00	561.60	0.00	
17	Providing and removing centering, shuttering, strutting, propping etc., for chejjas, corbels etc. , including edges including cost of all materials, labour complete as per specificaiton and the directions of the engineer-in-charge.									
		Sqm								
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						6.30			
				page no: 16			6.30	348.84	2197.69	
18	Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications and the directions of the engineer-in-charge.									
	Footings -F1		1	3.40	3.40	0.60	6.94			
	F2		3	3.20	3.20	0.60	18.43			
	F3		2	2.80	2.80	0.50	7.84			
			3	3.40	2.30	0.50	11.73			

	F4		3	2.50	2.30	0.45	7.76		
	Corridor F5		6	1.50	1.50	0.45	6.08		
	Columns up to Plinth Beam Bottom Level:-C1		1	0.45	0.30	0.60	0.08		
	C1		3	0.45	0.30	0.60	0.24		
	C2		2	0.45	0.30	0.70	0.19		
	C3		3	0.45	0.30	0.70	0.28		
	C4		3	0.45	0.30	0.75	0.30		
	C5		6	0.23	0.23	0.75	0.24		
	Plinth Beam :- Long Walls		3	19.80	0.30	0.45	8.02		
	Short Walls		6	7.80	0.30	0.45	6.32		
							74.45		
		Limited To Schedule 'B' Quantity					68.25	6276.96	428403.00
19	Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0 70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications and the directions of the engineer-in-charge								
	Columns:-C1	Cum	1	0.45	0.30	3.60	0.49		
	C2		3	0.45	0.30	3.60	1.46		
	C3		2	0.45	0.30	3.60	0.97		
	C3'		3	0.45	0.30	3.60	1.46		
	C4		3	0.45	0.30	3.60	1.46		
	C5		6	0.23	0.23	3.60	1.14		
							6.97		
		Limited To Schedule 'B' Quantity					6.38	6528.60	41652.00
20	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed cement for concrete with M-25 complete as per specifications and the directions of the engineer-in-charge								
	Lintel -Long Walls Room 1	Cum	4	3.05	0.20	0.20	0.49		
	Room 2		2	2.95	0.20	0.20	0.24		
			2	3.25	0.20	0.20	0.26		
	Room 3		2	4.60	0.20	0.20	0.37		
	Short Walls		4	5.80	0.20	0.20	0.93		
	Compound Wall Lintel Concrete		1	14.00	0.20	0.20	0.56		
			1	14.60	0.20	0.20	0.58		
			1	9.00	0.20	0.20	0.36		
			1	13.80	0.20	0.20	0.55		
	Pillars		17	0.20	0.20	0.20	0.14		
	Plinth Beam :- Long Walls		8	3.20	0.30	0.30	2.30		
			2	4.50	0.30	0.30	0.81		
	Short Walls		4	5.80	0.30	0.30	2.09		
	Center Beams		2	6.46	0.30	0.30	1.16		
	Corridor Beams		4	3.40	0.23	0.30	0.94		
			4	4.80	0.23	0.30	0.33		
			6	1.80	0.23	0.30	0.75		
	Ground Floor Roof		1	19.80	7.40	0.15	24.95		
							37.80		
		Limited To Schedule 'B' Quantity					37.15	5936.76	220551.00

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21	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications complete as per specifications and the directions of the engineer-in-charge.								
	Chejja,s.-W	Sqm	5	2.10	0.60		6.30		
		Limited To Schedule 'B' Quantity					5.40	535.68	2893.00
22	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications complete as per specifications and the directions of the engineer-in-charge.								
		Tonne							
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						14.45		
				page no: 9			14.45	84247.56	1217228.00
23	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc , complete as per specifications complete as per specifications and the directions of the engineer-in-charge.								
	Main Wall Up to Lintel Level - Long Walls Room 1	Sqm	4	3.05		2.10	25.62		
	Short walls		2	5.80		2.10	24.36		
	Long walls Room 2		2	3.25		2.10	13.65		
			2	2.95		2.10	12.39		
	Short walls		1	5.80		2.10	12.18		
	Long walls Room 3		2	4.60		2.10	19.32		
	Short walls		1	5.80		2.10	12.18		
	Main Wall Up to beam Level.- Long Walls Room 1		4	3.05		0.50	6.10		
	Short walls		2	5.80		0.50	5.80		
	Long walls Room 2		2	3.25		0.50	3.25		
			2	2.95		0.50	2.95		
	Short walls		1	5.80		0.50	2.90		
	Long walls Room 3		2	4.60		0.50	4.60		
	Short walls		1	5.80		0.50	2.90		
	Parapet Walls - Long Walls Room 1		4	3.05		0.40	4.88		
	Long walls Room 2		2	3.25		0.40	2.60		
			2	2.95		0.40	2.36		
	Long walls Room 3		2	4.60		0.40	3.68		
	Short walls		2	5.80		0.40	4.64		
	Compound Wall		1	14.00		2.20	30.80		
			1	14.30		2.20	31.46		
			1	9.60		2.20	21.12		
			1	13.50		2.20	29.70		
			17	0.20		2.20	7.48		
	Parapet Wall -Back		1	21.80		0.40	8.72		
	Right Side		1	8.40		0.40	3.36		
	Front		1	15.90		0.40	6.36		
	Left Side		1	8.50		0.40	3.40		
							308.76		
	(-)Deductions - D		3	1.20		2.10	7.56		
	W		8	1.80		1.20	17.28		
			1	1.20		1.20	1.44		
	Compound Wall Lintel Concrete		1	14.00		0.20	2.80		
			1	14.60		0.20	2.92		
			1	9.00		0.20	1.80		
			1	13.80		0.20	2.76		
	Pillars		17	0.20		0.20	0.68		

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							37.24		
							271.52	984.96	267436.00
24	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications complete as per specifications and the directions of the engineer-in-charge.								
	External Plastering:-Long Walls	Sqm	1	19.80		4.20	83.16		
	Front Corridor Portion		1	19.80		0.90	17.82		
	Plinth beam for front Bottom Portion		1	19.80		0.60	11.88		
	Short Walls		2	6.45		4.20	54.18		
	Short Wall Top Portion		2	1.95		0.90	3.51		
	Plinth beam for Corridor Bottom Portion		1	1.95		0.60	1.17		
	Parapet Wall Inside		2	19.40		0.45	17.46		
			2	8.00		0.45	7.20		
	Columns		6	1.10		2.70	17.82		
	Compound Wall		2	14.00		2.20	61.60		
			2	14.30		2.20	62.92		
			2	9.60		2.20	42.24		
			2	13.50		2.20	59.40		
			51	0.20		2.20	22.44		
							462.80		
	(-) Deductions:-W	0.50	5	1.80		1.20	5.40		
							457.40		
		Limited To Schedule 'B' Quantity					423.21	281.88	119294.43
25	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4, to brick masonry for base of dadooing works with sand of approved quality, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications complete as per specifications and the directions of the engineer-in-charge.								
	Internal Plastering:-Room-1	Sqm	2	7.00		0.15	2.10		
			2	6.00		0.15	1.80		
	Room-2		2	7.00		0.15	2.10		
			2	6.00		0.15	1.80		
	Room-3		2	5.00		0.15	1.50		
			2	6.00		0.15	1.80		
	Corridor		1	19.80		0.15	2.97		
	Columns		6	0.90		0.15	0.81		
							14.88		
	(-)Deduction:-D		6	1.20		0.15	1.08		
							13.80		
		Limited To Schedule 'B' Quantity					10.83	221.40	2398.00
26	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications complete as per specifications and the directions of the engineer-in-charge.								
	Internal Plastering:-Room-1	Sqm	2	7.00		3.00	42.00		
			2	6.00		3.00	36.00		
	Room-2		2	7.00		3.00	42.00		
			2	6.00		3.00	36.00		
	Room-3		2	5.00		3.00	30.00		
			2	6.00		3.00	36.00		
	Corridor		1	19.80		3.00	59.40		
							281.40		
	(-)Deduction:-D		6	1.20		2.10	15.12		
	W		16	1.80		1.20	34.56		
	W1		2	1.20		1.20	2.88		
							52.56		
							228.84		
		Limited To Schedule 'B' Quantity					227.49	220.32	50121.00

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27	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, including Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications complete as per specifications and the directions of the engineer-in-charge.								
	Cealing:-Room-1	Sqm	2	3.20	6.00		38.40		
	Corridor		2	3.20	1.80		11.52		
	Beams		1	6.00	0.30		1.80		
			2	6.00		0.30	3.60		
	Room-2		1	3.10	6.00		18.60		
	Corridor		1	3.10	1.80		5.58		
			1	3.40	6.00		20.40		
	Corridor		1	3.40	1.80		6.12		
	Beams		1	6.00	0.30		1.80		
			2	6.00		0.30	3.60		
	Room-3		1	5.00	6.00		30.00		
	Corridor		1	5.00	1.80		9.00		
	Corridor Beams		2	3.20	0.23		1.47		
			1	3.10	0.23		0.71		
			1	3.40	0.23		0.78		
			1	5.00	0.23		1.15		
			6	1.80	0.23		2.48		
	Sides		2	3.20		0.30	1.92		
			1	3.10		0.30	0.93		
			1	3.40		0.30	1.02		
			1	5.00		0.30	1.50		
			10	1.80		0.30	5.40		
							167.79	243.00	40773.21
28	Providing applying two coats of wall putty to **inside plastered walls and ceiling** using white cement putty Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. ,complete as per specificationand the directions of the engineer-in-charge.								
	Internal painting	Sqm	Quantity Vide Item NO-26				228.84		
			Quantity Vide Item NO-27				167.79		
							396.63	84.24	33412.20
29	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and the directions of the engineer-in-charge.								
	Internal painting	Sqm	Quantity Vide Item NO-26				228.84		
			Limited To Schedule 'B' Quantity				227.49	97.20	22112.00
30	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications Extra over Item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof complete as per specifications and the directions of the engineer-in-charge.								
	Ceiling	Sqm	Quantity Vide Item NO-27				167.79		
							167.79	127.44	21383.29
31	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, with primer complete as per specifications and the directions of the engineer-in-charge.								
	External painting	Sqm	Quantity Vide Item NO-24				423.21		
							423.21	110.16	46620.81

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32	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, complete as per specifications and the directions of the engineer-in-charge.								
	Room-1	sqm	2	3.20	5.70		36.48		
	Corridor		1	3.20	1.50		4.80		
	Room-2		1	3.40	5.70		19.38		
	Corridor		1	3.40	1.50		5.10		
	Room-3		1	3.10	5.70		17.67		
	Corridor		1	3.10	1.50		4.65		
	Room-5		1	4.70	5.70		26.79		
	Corridor		1	4.70	1.50		7.05		
							121.92	681.48	83086.04
33	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 1200 mm complete as per specifications and the directions of the engineer-in-charge.								
	Flooring:-Room-1	Sqm	1	7.00	6.00		42.00		
	Skirting		2	7.00		0.10	1.40		
			2	6.00		0.10	1.20		
	Room-2		1	7.00	6.00		42.00		
	Skirting		2	7.00		0.10	1.40		
			2	6.00		0.10	1.20		
	Room-3		1	5.00	6.00		30.00		
	Skirting		2	5.00		0.10	1.00		
			2	6.00		0.10	1.20		
	Corridor		1	19.80	1.95		38.61		
							160.01		
	(-)Deductions for Doors		6	1.20		0.10	0.72		
							159.29		
		Limited To Schedule 'B' Quantity					154.53	2137.32	330280.00
34	Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification and the directions of the engineer-in-charge.								
	Nosing for Skirting Line:-Room-1 Skirting	Mtr	2	7.00			14.00		
			2	6.00			12.00		
	Room-2 -Skirting		2	7.00			14.00		
			2	6.00			12.00		
	Room-3 -Skirting		2	5.00			10.00		
			2	6.00			12.00		
	Corridor -Skirting		1	19.80			19.80		
							93.80		
		Limited To Schedule 'B' Quantity					72.20	194.40	14036.00
35	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification and the directions of the engineer-in-charge..								
	Terrace	Sqm	1	19.40	8.00		155.20		

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							155.20	568.08	88166.02
36	Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specificationsand the directions of the engineer-in-charge.								
	Ground floor:-D	Nos	3				3.00		
							3.00	1475.28	4425.84
37	KSRB 9.4-2: Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries complete as per specifications and the directions of the engineer-in-charge.								
	Ground floor:-D	Cum	3	6.60	0.15	0.125	0.37		
							0.37	94612.32	35124.82
38	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications and the directions of the engineer-in-charge.								
	Ground floor:-D	Sqm	3	1.20		2.10	7.56		
							7.56	5099.76	38554.19
39	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications and the directions of the engineer-in-charge.								
		Sqm							
	Ground floor:-D	2.25	3	1.20		2.10	17.01		
							17.01		
		Limited To Schedule 'B' Quantity					7.56	104.76	792.00
40	Providing and fixing in position anodized aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame section of size 92 x31.75mm. With 1.3mm thick, bottom section weight 1.07 kg/m; and shutter comprising top and bottom section of size 40mmx18mm,1.25mm thick 0.417kg/m; shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc; and providing and fixing 5.5mm thick plain glass for shutters fitted with rubber beading aluminium sections anodised 12 to 15 microns, including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any rush and coated with greasy for non adhesion of mortor and other sticky materials.(this fixtures, labhour and HOM at machinery complete as per specifications.Using alluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.								
	Ground Floor:-W	Sqm	8	1.80		1.20	17.28		
	W1		1	1.20		1.20	1.44		
							18.72	4789.80	89665.06
41	Providing and fixing MS grill work for windows and ventilators weighing 21 kgs./ sqm. using MS flats or MS square bars or combination of MS flats and square bars as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat red lead primer & two coats synthetic enamel paint, cost of materials, fixtures, labour and HOM of machinery complete as per technical specification and the directions of the engineer-in-charge								
	Ground Floor:-W	Kg.s	8	1.80		1.20	17.28		
	W1		1			1.20	1.44		
							18.72		
						21 Kg	393.12	102.60	40321.80
						Say	393.00		

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42	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications and the directions of the engineer-in-charge.								
		Sqm							
	Ground Floor:-W	2.25	8	1.80		1.20	38.88		
	W1	2.25	1	1.20		1.20	3.24		
							42.12		
		Limited To Schedule 'B' Quantity					40.50	102.60	4155.00
43	Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH complete as per specifications and the directions of the engineer-in-charge.								
		Cum							
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						75.94		
				page no: (8)			75.94	351.00	26655.64
44	Providing and fixing MS Gate as per Chief Architect Drawing,using 50mm x 50mm 14 guage M S Hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M S flats at horizontal member and at the top cast iron spikes are provided at alternative vertical members as shown in the drawing etc.,complete. All the steel surface should be throughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc complete.The work includes cost of all materials ,labour charges for all items of work ,hire charges with lead and lift,loading and unloading charges etc ,Complete as per specifications and the directions of the Engineer-in-charge.								
	Gate	Sqm	1	5.40		1.95	10.53		
							10.53	3252.96	34253.67
45	Dismantling of barbed wire fencing/wire mesh fencing including posts,foundation concrete,back filling of pit by manual means including disposal of dismantled material with all lifts and stacking serviceable materials and unserviceable material separately complete as per specifications and the directions of the Engineer-in-charge.								
		Cum							
	Quantity Vide As Per Pre Measurement are Prepared in Excel Sheets of E-Bill						35.20		
				page no: (6)			35.20	71.28	2509.00
46	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete as per specifications and the directions of the Engineer-in-charge.**Short Point Up to 3m.**								
		Point	7				7.00		
							7.00	200.00	1400.00
47	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete as per specifications and the directions of the Engineer-in-charge.**Medium Point Above 3m-6m.**								
		Point	8				8.00		
							8.00	275.00	2200.00

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48	Concealed Conduit System - Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc , and binding wires and unused ways of unction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary.**25mm Dia,2mm Thick** complete as per specifications and the directions of the Engineer-in-charge.								
		Rmtr	1	30.00			30.00		
							30.00	53.00	**1590.00**
49	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary.**19/20mm Dia,2mm Thick** complete as per specifications and the directions of the Engineer-in-charge.								
		Rmtr	1	25.00			25.00		
							25.00	51.00	**1275.00**
50	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary.**25mm Dia,2mm Thick** complete as per specifications and the directions of the Engineer-in-charge.								
		Rmtr	1	15.00			15.00		
							15.00	54.00	**810.00**
51	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C C wall 1-3 way complete as per specifications and the directions of the Engineer-in-charge								
		Each	5				5.00		
							5.00	95.00	475.00
52	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C C wall 4-5 way complete as per specifications and the directions of the Engineer-in-charge								
		Each	6				6.00		
							6.00	105.00	**630.00**
53	Supplying 6A flush type socket and 6 amp flush type SP switch either surface/flush mountinh in existing gang box or in 4mm thik plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wire as required as per IS 1293 and IS 3654. 6AMP 3/5 and Switch complete as per specifications and the directions of the Engineer-in-charge.								
		No	3				3.00		
							3.00	132.00	**396.00**
54	Supplying and mounting 2 Nos, of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flusg mounted wooden box and wiring as per IS 1293 complete as per specifications and the directions of the Engineer-in-charge.								
		Each	3				3.00		
							3.00	150.00	**450.00**
55	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854 16Amps Combined Switch and socket with indication complete as per specifications and the directions of the Engineer-in-charge.								
		No	3				3.00		
							3.00	194.00	**582.00**
56	Electronic Stepped regulator complete as per specifications and the directions of the Engineer-in-charge								

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		No	2				2.00		
							2.00	150.00	300.00
57	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with lowconductor resistance single core in open or concealedsystem of wiring with specified IS-694:confirming to latestamendments.**1.5sqmm** complete as per specifications and the directions of the Engineer-in-charge.								
		Rmtr	1	30.00			30.00		
							30.00	20.05	601.50
58	Wiring for lighting / power circuit using one of FRLS PVCinsulated 1100V grade, multistrand copper wire with Low conductor resistance single core in open or concealedsystem of wiring with specified IS-694:confirming to latest amendments.**2.5sqmm** complete as per specifications and the directions of the Engineer-in-charge.								
		Rmtr	1	30.00			30.00		
							30.00	32.00	960.00
59	Supplying and fixing Metal Fan Box with Round Hook complete as per specifications and the directions of the Engineer-in-charge.								
		Each	3				3.00		
							3.00	85.00	255.00
60	Suppiying and fixing of slim box Fitting ,made out of CRCA sheet metal body with locking type holder completely wired Excluding Ballast &Flouresent Tube. 1X4' Tube light Fittingcomplete as per specifications and the directions of the Engineer-in-charge.								
		No.s	4				4.00		
							4.00	300.00	1200.00
61	Supplying capacitor type ceiling fan complete with down rod blades shackle, canopies etc, for operation on 230 volts, 50 cycles. single phase AC supply conforming to ISS-374-1979 and with double ball bearing system complete as per specifications and the directions of the Engineer-in-charge.								
		Each	3				3.00		
							3.00	2090.00	6270.00
								Sub Total RS	4325354.04
								Add 12% of GST RS	519042.48
								Grand Total RS	4844396.53

CERTIFICATE:

1) Certified that the above work done is satisfactory completed.
2) Certified that the there is no debries have been cleared to site.

Assistant Engineer
Ward No-03

Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

Bruhat Bengaluru
Mahanagara Palike

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

PRE-MEASUREMENTS

NAME OF WORK:- Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa.No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

JOB CODE NO:-003-21-000028

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & Final E- Bill

NAME OF WORK:-Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri Lakshman P S/o Hanumanthappa No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:- 29/03/2022

S. No	Description of work	Unit	No.	Measurements L	B	D	Qty	Remarks
45	Dismantling of barbed wire fencing/wire mesh fencing including posts,foundation concrete,back filling of pit by manual means including disposal of dismantled material with all lifts and stacking serviceable materials and unserviceable material separately complete as per specifications and the directions of the Engineer-in-charge.							
	Compound Line	Sqm	1	13.90			13.90	
				6.50			6.50	
				14.80			14.80	
				35.20			35.20	

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & Final E- Bill

NAME OF WORK:-Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa.No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:- 21/03/2022

S. No	Description of work	Unit	No.	Measurements L	B	D	Qty	Remarks
1	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications and the directions of the engineer-in-charge.							
	Footings -F1	Cum	1	3.40	3.40	1.35	15.61	
	F2		5	3.20	3.20	1.35	41.47	
	F3		2	2.80	2.80	1.35	21.17	
	F3'		3	3.40	2.30	1.35	31.67	
	F4		3	2.50	2.30	1.35	23.29	
	Corridor F5		6	1.50	1.50	1.35	18.23	
	Foundations -Long Walls		3	19.50	0.80	0.75	35.10	
	Short Walls		6	5.10	0.80	0.75	18.36	
			2	1.10	0.80	0.75	1.32	
	Compound Wall		1	14.60	0.80	0.60	7.01	
			1	9.00	0.80	0.60	4.32	
			1	13.80	0.80	0.60	6.62	
							224.16	
	(-)Deduction for Footings :-							
	Footings -F1		1	3.40	0.80	0.75	2.04	
	F2		3	3.20	0.80	0.75	5.76	
	F3		2	2.80	0.80	0.75	3.36	
	F3'		3	3.40	0.80	0.75	6.12	
	F4		3	2.50	0.80	0.75	4.50	
	Corridor F5		6	1.50	0.80	0.75	5.40	
							27.18	
							196.98	
		Limited To Schedule 'B' Quantity					196.56	

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & Final E- Bill

NAME OF WORK:-Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa.No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:- 02/04/2022

S. No	Description of work	Unit	No.	Measurements L	B	D	Qty	Remarks
2	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications and the directions of the engineer-in-charge.							
	Footings:-F1	Cum.	1	3.40	3.40	0.15	1.73	
	F2		3	3.20	3.20	0.15	4.61	
	F3		2	2.80	2.80	0.15	2.35	
	F4		3	3.40	2.30	0.15	3.52	
	Grids:-F5		3	2.50	2.30	0.15	2.59	
			6	1.50	1.50	0.15	2.03	
							16.83	
		Limited To Schedule 'B' Quantity					14.62	

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & Final E- Bill

NAME OF WORK:-Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa.No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:- 07/04/2022

S. No	Description of work	Unit	No.	Measurements			Qty	Remarks
				L	B	D		
9	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge and the directions of the engineer-in-charge.							
		Cum						
							Quantity Vide Item No-01	196.98
								196.98
							(-) Filling Available soil	98.86
								98.12

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & Final E- Bill

NAME OF WORK:-Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa.No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:- 10/04/2022

S.No	Description of work	Unit	No.	Measurements L	B	D	Qty	Remarks
43	Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53 Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH complete as per specifications and the directions of the engineer-in-charge.							
	Embankment Filling :-Room-1	Cum	2	3.20	5.70	0.60	21.89	
	Room-2		1	3.40	5.70	0.60	11.63	
			1	3.10	5.70	0.60	10.60	
	Room-3		1	4.70	5.70	0.60	16.07	
	Corridor		4	3.40	1.50	0.60	11.52	
			1	4.70	1.50	0.60	4.23	
							75.94	

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & Final E- Bill

NAME OF WORK:-Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa.No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:- 05/04/2022

S. No	Description of work	Unit	No.	Measurements L	B	D	Qty	Remarks
22	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications complete as per specifications and the directions of the engineer-in-charge.							
		Tonne						
	Footing,s Mat:-							
	Stright Rods 16mm Dia							
	F1:-Longer Rods	1	40	4.50	180.00			
	Shorter Rods	1	40	4.50	180.00			
	F2:-Longer Rods	3	36	4.20	453.60			
	Shorter Rods	3	36	4.20	453.60			
	F3:-Longer Rods	2	30	3.60	216.00			
	Shorter Rods	2	30	3.60	216.00			
	F3':-Longer Rods	3	34	4.20	428.40			
	Shorter Rods	3	24	3.10	223.20			
	F4:-Longer Rods	3	22	3.20	211.20			
	Shorter Rods	3	24	3.00	216.00			
	F5:-Longer Rods	6	16	2.20	211.20			
	Shorter Rods	6	16	2.20	211.20			
					3200.40	1.58	5056.63	
	Measurements Continued on:- 18/04/2022							
	Main Rods :-25mm Dia							
	Columns up to Plinth Beam bottom Level							
	C1	1	10	6.00	60.00			
	C2	3	8	6.00	144.00			
	C3	2	6	6.00	72.00			
		3	6	6.00	108.00			
					384.00	3.20	1228.80	
	Main Rods :-20mm Dia							
	C4	3	6	6.00	108.00			
	C5	6	4	6.00	144.00			
					252.00	2.47	622.44	
	Stirrupps@ 8mm Dia(0.20c/c)							
	C1	1	50	1.20	60.00			
	C2	3	50	1.20	180.00			
	C3	2	25	1.35	67.50			
		2	25	0.45	22.50			

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C3	3	25	1.35	101.25			
	3	25	0.45	33.75			
C4	3	25	1.35	101.25			
	3	25	0.45	33.75			
C5	6	25	1.20	180.00			
				780.00	0.39	304.20	
Measurements Continued on:- 25/04/2022							
Plinth Beam :-Top Rods 20mm Dia							
Long Walls	3	2	20.60	123.60			
Short Walls	6	2	9.20	110.40			
				234.00	2.47	577.98	
Bottom Rods 16mm Dia	3	3	3.70	33.30			
	6	3	10.40	187.20			
				220.50	1.58	348.39	
Stirrup,s 8mm Dia (0.20 c/c)							
Long Walls	3	93	1.65	460.35			
Short Walls	6	38	1.65	376.20			
				836.55	0.39	326.25	
Measurements Continued on:- 06/06/2022							
Lintel Beam :-Top& Bottom Rods 12mm Dia							
Long Walls	2	2	20.00	80.00			
Short Walls	4	2	9.00	72.00			
Compound Wall Lintel Concrete:-Top & Bottom Rods		6	14.80	88.80			
		6	9.20	55.20			
		6	14.00	84.00			
				380.00	0.89	338.20	
Lintel Beam :-Top& Bottom Rods 16mm Dia							
Long Walls	2	4	20.00	160.00			
Short Walls	4	4	9.00	144.00			
				304.00	1.58	480.32	
Stirrup,s 8mm Dia (0.20 c/c)							
Long Walls	2	93	1.00	186.00			
Short Walls	4	38	1.00	152.00			
	1	74	1.00	74.00			
	1	46	1.00	46.00			
	1	70	1.00	70.00			
				528.00	0.39	205.92	
Chejja,s:-Main Rods 12mm Dia (0.12c/c)							
W	18	5	1.65	148.50			
				148.50	0.89	132.17	
Distrubution Rods 8mm Dia (0.15c/c)							
W	6	5	2.05	61.50			
				61.50	0.39	23.99	
Measurements Continued on:- 16/06/2022							
Tie Beams :-Top Rods 12mm Dia							
B4	2	2	20.60	82.40			
B5	1	2	20.60	41.20			
B1	2	2	9.20	36.80			
				160.40	0.89	142.76	

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Top Extra Rods 20mm Dia:-B4	2	16	2.85	91.20			
	2	8	1.85	29.60			
B1	2	2	2.10	8.40			
	2	2	3.80	15.20			
				144.40	2.47	356.67	
Bottom Rods 25mm Dia							
B1	2	2	9.20	36.80			
	2	1	3.60	7.20			
				44.00	3.20	140.80	
Top Rods 20mm Dia:-B2	1	2	9.20	18.40			
				18.40	2.47	45.45	
25mm Dia:-Top Extra Rods:-B2	1	2	3.60	7.20			
Bottom Rods:-B2	1	2	9.20	18.40			
Bottom Extra Rods	1	2	3.80	7.60			
				33.20	3.20	106.24	
Top Rods 20mm Dia:-B2	3	2	9.20	55.20			
				55.20	2.47	136.34	
25mm Dia:-Top Extra Rods:-B2	3	2	3.60	21.60			
Bottom Rods:-B2	3	2	9.20	55.20			
Bottom Extra Rods	3	2	3.80	22.80			
				99.60	3.20	318.72	
Stirrup,s 8mm Dia (0.25 c/c)							
B4-B5	3	128	1.65	633.60			
	3	72	1.65	356.40			
B1-B2-B3	6	6	1.65	59.40			
	6	33	1.65	326.70			
				1376.10	0.39	536.68	
Measurements Continued On :- 16/06/2022							
Roof:-Main Rods 12mm Dia (0.15c/c)							
Alternative Crank Rods	51	1	20.80	1060.80			
Stright Rods:-	34	2	20.80	1414.40			
Tension Rods	68	4	2.40	652.80			
	68	2	0.90	122.40			
Supporting Chaires	60	1	1.20	72.00			
				3322.40	0.62	2059.89	
Distrubution Rods 8mm Dia (.20c/c)							
Stright Rods:-	132	1	8.50	1122.00			
	66	2	8.50	1122.00			
Tension Rods	10	12	1.20	144.00			
	10	6	1.20	72.00			
				2460.00	0.39	959.40	
						14448.23	
						14.45	

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & Final E- Bill

NAME OF WORK:-Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa.No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:- 29/04/2022

S. No	Description of work	Unit	No.	Measurements L	B	D	Qty	Remarks
10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons and the directions of the engineer-in-charge.							
	Footings:-F1	Sqm	2	3.40		0.60	4.08	
			2	3.40		0.60	4.08	
	F2		6	3.20		0.60	11.52	
			6	3.20		0.60	11.52	
	F3		4	2.80		0.50	5.60	
			4	2.80		0.50	5.60	
	F3'		6	3.40		0.50	10.20	
			6	2.30		0.50	6.90	
			6	2.50		0.45	6.75	
			6	2.30		0.45	6.21	
	Corridor F6		12	1.50		0.45	8.10	
			12	1.50		0.45	8.10	
							88.66	
		Limited To Schedule 'B' Quantity					75.24	

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BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & Final E- Bill

NAME OF WORK:-Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:- 17/04/2022

S. No	Description of work	Unit	No.	Measurements L	B	D	Qty	Remarks
11	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons and the directions of the engineer-in-charge.							
	Plinth Beam:- Long Walls Room 1	Sqm	12	3.05		0.45	16.47	
	Room2		6	3.25		0.45	8.78	
			6	2.95		0.45	7.97	
	Room 3		8	4.80		0.45	12.96	
	Short Walls		12	5.90		0.45	31.86	
			12	1.70		0.45	9.18	
							87.21	

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BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & Final E- Bill

NAME OF WORK:-Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa.No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:- 10/04/2022

S. No	Description of work	Unit	No.	Measurements L	B	D	Qty	Remarks
12	Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton and the directions of the engineer-in-charge.							
	Columns up to Plinth Beam Bottom Level -C1	Sqm	2	0.45		0.60	0.54	
			2	0.30		0.60	0.36	
	C1		6	0.45		0.60	1.62	
			6	0.30		0.60	1.08	
	C2		4	0.45		0.70	1.26	
			4	0.30		0.70	0.84	
	C3		6	0.45		0.70	1.89	
			6	0.30		0.70	1.26	
	C4		6	0.45		0.75	2.03	
			6	0.30		0.75	1.35	
			6	0.23		0.75	2.07	
			12	0.23		0.75	2.07	
	Columns up to Lintel Level -C1		2	0.45		2.10	1.89	
			2	0.30		2.10	1.26	
	C1		6	0.45		2.10	5.67	
			6	0.30		2.10	3.78	
	C2		4	0.45		2.10	3.78	
			4	0.30		2.10	2.52	
	C3		6	0.45		2.10	5.67	
			6	0.30		2.10	3.78	
	C4		6	0.45		2.10	5.67	
			6	0.30		2.10	3.78	
	C5		12	0.23		2.10	5.80	
			12	0.23		2.10	5.80	
							65.76	
		Limited To Schedule 'B' Quantity					65.70	

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Yelahanka Satellite Town Sub Division
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BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & Final E- Bill

NAME OF WORK:-Additional and Alteration of Govt ,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa.No 29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:- 09/05/2022

S.No	Description of work	Unit	No.	Measurements L	B	D	Qty	Remarks
15	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons and the directions of the engineer-in-charge.							
		Sqm						
	Lintel Beam:- Long Walls	2	2	19.80		0.20	15.84	
	Short Walls	2	4	5.80		0.20	9.28	
	Compound Wall Lintel Concrete	2	1	14.60		0.20	5.84	
			1	9.00		0.20	3.60	
			1	13.80		0.20	5.52	
	Pillars		13	0.23		0.20	1.20	
	Tie Beam:- Long Walls	2	2	19.80		0.30	23.76	
		2	1	19.80		0.30	11.88	
	Short Walls	2	6	7.80		0.30	28.08	
							105.00	

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NAME OF WORK:-Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa.No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:- 09/05/2022

S. No	Description of work	Unit	No.	Measurements			Qty	Remarks
				L	B	D		
17	Providing and removing centering, shuttering, strutting, propping etc., for chejjas, corbels etc. , including edges including cost of all materials, labour complete as per specificaiton and the directions of the engineer-in-charge.							
	Chejja,s.-W	Sqm	5	2.10	0.60		6.30	
							6.30	

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B.B.M.P.

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & Final E- Bill

NAME OF WORK:-Additional and Alteration of Govt.,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa.No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:-19/05/2022

S. No	Description of work	Unit	No.	Measurements L	B	D	Qty	Remarks
13	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.Complete as per specifications and the directions of the engineer-in-charge.							
	Ceiling -Room-1	Sqm	2	3.20	6.00		38.40	
	Corridor		2	3.20	1.80		11.52	
	Room-2		1	3.10	6.00		18.60	
	Corridor		1	3.10	1.80		5.58	
			1	3.40	6.00		20.40	
	Corridor		1	3.40	1.80		6.12	
	Room-3		1	5.00	6.00		30.00	
	Corridor		1	5.00	1.80		9.00	
	Columns up to Tie Beam Level -C1		2	0.45		0.50	0.45	
			2	0.30		0.50	0.30	
	C1		6	0.45		0.50	1.35	
			6	0.30		0.50	0.90	
	C2		4	0.45		0.50	0.90	
			4	0.30		0.50	0.60	
	C3		6	0.45		0.50	1.35	
			6	0.30		0.50	0.90	
	C4		6	0.45		0.50	1.35	
			6	0.30		0.50	0.90	
			12	0.23		0.50	1.38	
			12	0.23		0.50	1.38	
	Columns up to Slope Level -C1		2	0.45		0.40	0.36	
			2	0.30		0.40	0.24	
	C1		6	0.45		0.40	1.08	
			6	0.30		0.40	0.72	
	C2		4	0.45		0.40	0.72	
			4	0.30		0.40	0.48	
	C3		6	0.45		0.40	1.08	
			6	0.30		0.40	0.72	
	C4		6	0.45		0.40	1.08	
			6	0.30		0.40	0.72	
	C5		12	0.23		0.40	1.10	
			12	0.23		0.40	1.10	
							160.79	
			Limited To Schedule 'B' Quantity				156.42	

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
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BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & Final E- Bill

NAME OF WORK:-Additional and Alteration of Govt ,School at Ananthapura Village in Attur Ward No 03.

Agency:-Sri.Lakshman P S/o Hanumanthappa.No:29,3rd cross,Canara BankColony, Dwarakanagara,Chandra Layout,Vijayanagara,Bangalore-560040.

Pre-Measurements Taken On:- 19/05/2022

S. No	Description of work	Unit	No.	Measurements L	B	D	Qty	Remarks
14	Providing and removing centering, shuttering, strutting, propping etc , for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications and the directions of the engineer-in-charge.							
	Roof Slab Alround :-	Sqm	2	18.80		0.15	5.94	
				8.40		0.15	2.52	
							8.46	
				Limited To Schedule 'B' Quantity			8.31	

Assistant Engineer
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